

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Initial Application of

Morton M. MOWER, M.D.

Appln. No.: 09/929,478

Group Art Unit: 3762

Filed: August 14, 2001

Examiner:

For: ANTITACHYCARDIAL PACING

TRANSMITTAL LETTER

Commissioner For Patents
Washington, D.C. 20231

Dear Sir:

Enclosed please find the following:

1. Information Disclosure Statement;
2. Form PTO-1449 (11 sheets); and
3. Exhibits (126 references enclosed).

The Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to Deposit Account No. 18-1579. The Commissioner is also authorized to charge Deposit Account No. 18-1579 for any future fees connected in any way to this application. A duplicate copy of this letter is enclosed.

Respectfully submitted,

Kevin L. Pontius
Registration No. 37,512

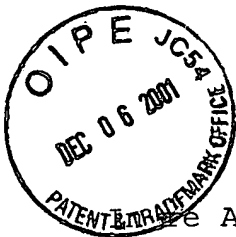
ROBERTS ABOKHAIR & MARDULA, LLC
11800 SUNRISE VALLEY DRIVE
SUITE 1000
RESTON, VIRGINIA 20191-5302
(703) 391-2900

Date: November 15, 2001

Atty. Dkt. No.: 2206-006C

3762

#2



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of

Morton M. MOWER, M.D.

Appln. No.: 09/929,478

Group Art Unit: 3762

Filed: August 14, 2001

Examiner:

For: ANTITACHYCARDIAL PACING

* * * * *
INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97
* * * * *

Commissioner For Patents
Washington, D.C. 20231

Dear Sir:

In accordance with 37 C.F.R. § 1.56, Applicant hereby submits the following Information Disclosure Statement. The PTO-1449 forms submitted herewith list references that Applicant believes may be relevant. These documents are not necessarily analogous art. It is respectfully requested that these documents be considered by the Examiner, and that the Examiner indicate consideration of the cited references by returning copies of the attached form PTO-1449 with initials or other appropriate marks affixed. Enclosed are copies of all the cited references.

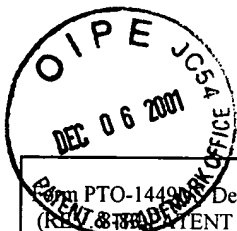
Respectfully submitted,

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Registration No. 37,512

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Date: November 15, 2001

Atty. Dkt. No.: 2206-006C



Form PTO-1449 Rev. 1-97 U.S. Patent & Trademark Office Dept. of Commerce INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. 2206-006C	APPLICATION NO. 09/929,478
	APPLICANT Morton M. MOWER, M.D.	
	FILING DATE August 14, 2001	GROUP 3762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	3,924,641	12/ 1975	Weiss			
	3,946,745	1/1976	Siang-Lai <i>et al.</i>			
	4,019,519	4/1977	Geerling			
	4,055,190	10/1977	Tany			
	4,222,386	9/1980	Smolnikov <i>et al.</i>	607	9	
	4,233,986	11/1980	Tannenbaum			
	4,298,007	11/1981	Wright <i>et al.</i>			
	4,327,322	4/1982	Yukl			
	4,343,312	8/1982	Cals <i>et al.</i>	128	419	
	4,392,496	7/1983	Stanton			

FOREIGN PATENT DOCUMENTS

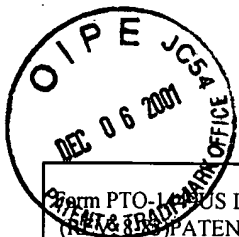
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
	0 813 889 A2	12/1997	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	Guyton, Textbook of Medical Physiology, 8th Edition, Chapter 9, pp. 98-99, 1991.
	Brian G. Cleland, "A Conceptual Basis for Pacing Waveforms," Pace, vol. 19, 1177-1185 (Aug. 1996).
	Allen M. Greenspan, M.D., "Electrophysiology of Pacing," 29-35, Ideal Cardiac Pacing, vol. 37 in the Series, Major Problems in Clinical Surgery (1984).

EXAMINER	DATE CONSIDERED
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Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-100 US Dept. of Commerce (PAT & TRADEMARK OFFICE) INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. 2206-006C	APPLICATION NO. 09/929,478
	APPLICANT Morton M. MOWER, M.D.	
	FILING DATE August 14, 2001	GROUP 3762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	4,402,322	9/1983	Duggan			
	4,429,697	2/1984	Nappholz <i>et al.</i>			
	4,444,195	4/1984	Gold			
	4,456,012	6/1984	Lattin			
	4,498,478	2/1985	Bourgeois			
	4,539,991	9/1985	Boute <i>et al.</i>			
	4,543,956	10/1985	Herscovici			
	4,569,350	2/1986	Mumford <i>et al.</i>			
	Re. 32,091	3/1986	Stanton			
	4,612,934	9/1986	Borkan			

FOREIGN PATENT DOCUMENTS

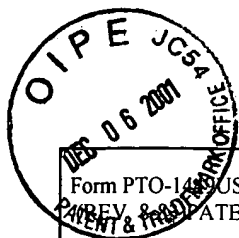
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
	0 870 516	10/1998	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	Brian F. Hoffman, M.D., and Paul F. Carnefield, M.D., Electrophysiology of the Heart, 220-222 (1976).
	Bradley J. Roth, Ph.D., "Strength-Internal Curves for Cardiac Tissue Predicted Using the Bidomain Model," Journal of Cardiovascular Electrophysiology, vol. 7, No. 8, 722-737 (Aug. 1996).
	Harold Siddons and Edgar Sowton, "Cardiac Pacemakers," 152-154.

EXAMINER	DATE CONSIDERED
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Form PTO-1480 US Dept. of Commerce PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. 2206-006C	APPLICATION NO. 09/929,478
	APPLICANT Morton M. MOWER, M.D.	
	FILING DATE August 14, 2001	GROUP 3762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
		4,637,397	1/1987	Jones <i>et al.</i>	128	419	
		4,646,744	3/1987	Capel			
		4,723,552	2/1988	Kenyon <i>et al.</i>			
		4,754,759	7/1988	Allocca			
		4,781,194	11/1988	Elmqvist			
		4,821,724	4/1989	Whigham <i>et al.</i>	607	13	
		4,823,810	4/1989	Dervieux			
		4,875,484	10/1989	Anzai <i>et al.</i>			
		4,903,700	2/1990	Whigham <i>et al.</i>	128	419	
		4,919,140	4/1990	Borgens <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

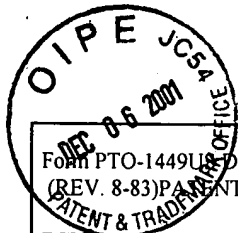
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
		0 850 662	7/1998	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

		Estes <i>et al.</i> , Implantable Cardioverter-Defibrillators, p. 181 (1994).
		Ravazzi <i>et al.</i> , Changes Induced in Ventricular Activator Using Non-Standard Pacing Pulse
		Morphologies at Different Right Septal Sites (1998).
		Ravazzi <i>et al.</i> , Ventricular Pacing Threshold Improvement Using Non-Standard Pacing Pulse
		Morphologies at Different Right Septal Sites (1998).

EXAMINER	DATE CONSIDERED
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Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449US Dept. of Commerce (REV. 8-83) PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. 2206-006C	APPLICATION NO. 09/929,478
	APPLICANT Morton M. MOWER, M.D.	
	FILING DATE August 14, 2001	GROUP 3762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	4,924,880	5/1990	O'Neill <i>et al.</i>			
	4,940,054	7/1990	Grevis <i>et al.</i>			
	4,944,298	7/1990	Sholder			
	4,976,264	12/1990	Petrofsky			
	4,989,605	2/1991	Rossen			
	4,996,987	3/1991	Petrofsky			
	5,018,522	5/1991	Mehra	607	10	
	5,027,815	7/1991	Funke <i>et al.</i>			
	5,036,850	8/1991	Owens			
	5,048,522	9/1991	Petrofsky			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
	0 491 649 B1	9/1996	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	Prochaczek <i>et al.</i> , Transcutaneous Ventricular Pacing of the Human Heart with Increased Overthreshold Energy; Hemodynamic Effects (1998).
	Kutarski <i>et al.</i> , Cathode or Anode in Coronary Sinus (CS) in Pts With Daubert's BiA Pacing System (1998).

EXAMINER	DATE CONSIDERED
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Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO/DK-149 (REV. 8-83) US Dept. of Commerce PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. 2206-006C	APPLICATION NO. 09/929,478
	APPLICANT Morton M. MOWER, M.D.	
	FILING DATE August 14, 2001	GROUP 3762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRI- ATE
		5,052,391	10/1991	Silberstone <i>et al.</i>			
		5,058,584	10/1991	Bourgeois			
		5,063,929	11/1991	Bartelt <i>et al.</i>			
		5,065,083	11/1991	Owens			
		5,069,211	12/1991	Bartelt <i>et al.</i>			
		5,083,564	1/1992	Scherlag			
		5,097,833	3/1992	Campos			
		5,105,810	4/1992	Collins <i>et al.</i>			
		5,109,847	5/1992	Liss <i>et al.</i>			
		5,111,811	5/1992	Smits			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUM- BER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
		0 600 631	12/1999	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER	DATE CONSIDERED
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Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449 US Dept. of Commerce (REV. 8-83) PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. 2206-006C	APPLICATION NO. 09/929,478
	APPLICANT Morton M. MOWER, M.D.	
	FILING DATE August 14, 2001	GROUP 3762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRI- ATE
		5,117,826	6/1992	Bartelt <i>et al.</i>			
		5,163,429	11/1992	Cohen			
		5,181,511	1/1993	Nickolls <i>et al.</i>			
		5,193,535	3/1993	Bardy <i>et al.</i>			
		5,209,229	5/1993	Gilli			
		5,213,098	5/1993	Bennett <i>et al.</i>			
		5,215,083	6/1993	Drane <i>et al.</i>			
		5,224,475	7/1993	Berg <i>et al.</i>			
		5,224,476	7/1993	Ideker <i>et al.</i>	128	419	
		5,233,985	8/1993	Hudrlik			

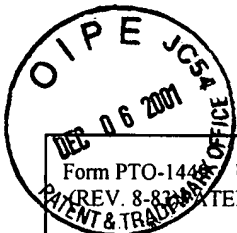
FOREIGN PATENT DOCUMENTS

		DOCUMENT NUM- BER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
		93/01861	2/1993	WO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER	DATE CONSIDERED		

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Form PTO-1448 US Dept. of Commerce
PATENT & TRADEMARK OFFICE

ATTY DOCKET NO.
2206-006C

APPLICATION NO.
09/929,478

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT
Morton M. MOWER, M.D.

FILING DATE
August 14, 2001

GROUP
3762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRI- ATE
		5,300,096	4/1994	Hall <i>et al.</i>	607	48	
		5,314,423	5/1994	Seney	606	20	
		5,314,495	5/1994	Kovacs	623	25	
		5,332,401	7/1994	Davey <i>et al.</i>	607	116	
		5,334,220	8/1994	Sholder			
		5,340,361	8/1994	Sholder			
		5,350,401	9/1994	Levine			
		5,391,185	2/1995	Kroll	607	4	
		5,411,525	5/1995	Swanson <i>et al.</i>	607	5	
		5,411,547	5/1995	Causey, III	607	129	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUM- BER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
		97/25098	7/1997	WO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

DATE CONSIDERED

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1029 US Dept. of Commerce (REV. 06-01) PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. 2206-006C	APPLICATION NO. 09/929,478
	APPLICANT Morton M. MOWER, M.D.	
	FILING DATE August 14, 2001	GROUP 3762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRI- ATE
		5,421,830	6/1995	Epstein <i>et al.</i>	607	30	
		5,422,525	6/1995	Mansir			
		5,423,868	6/1995	Nappholz <i>et al.</i>			
		5,441,522	8/1995	Schuller			
		5,458,625	10/1995	Kendall	607	46	May 4, 1994
		5,468,254	11/1995	Hahn <i>et al.</i>	607	5	July 26, 1993
		5,480,413	1/1996	Greenhut <i>et al.</i>	607	14	Nov. 3, 1994
		5,487,759	1/1996	Bastyr <i>et al.</i>	607	149	June 14, 1993
		5,507,781	4/1996	Kroll <i>et al.</i>	607	7	Dec. 31, 1992
		5,514,161	5/1996	Limousin	607	9	Apr. 4, 1995

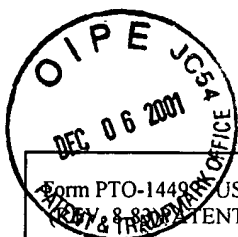
FOREIGN PATENT DOCUMENTS

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							YES	NO
		0600631 A2	11/1993	EP				

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Form PTO-1449 US Dept. of Commerce PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. 2206-006C	APPLICATION NO. 09/929,478
	APPLICANT Morton M. MOWER, M.D.	
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRI- ATE
		5,514,163	5/1996	Markowitz <i>et al.</i>			Feb. 21, 1995
		5,522,858	6/1996	van der Veen	607	14	Oct. 26, 1994
		5,527,347	6/1996	Shelton <i>et al.</i>			Feb. 21, 1995
		5,534,015	7/1996	Kroll <i>et al.</i>	607	7	Oct. 11, 1994
		5,534,018	7/1996	Wahlstrand <i>et al.</i>	607	27	Nov. 30, 1994
		5,545,186	8/1996	Olson <i>et al.</i>			Mar. 30, 1995
		5,562,708	10/1996	Combs <i>et al.</i>	607	4	Apr. 21, 1994
		5,601,608	2/1997	Mouchawar	607	5	Feb. 2, 1995
		5,620,470	4/1997	Gliner <i>et al.</i>	607	5	Aug. 6, 1993
		5,620,471	4/1997	Duncan	607	14	June 16, 1995

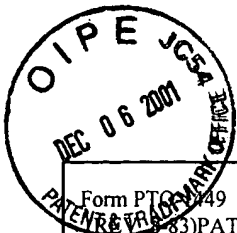
FOREIGN PATENT DOCUMENTS

		DOCUMENT NUM- BER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
		0491649 A2	6/1992	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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Form PTO 149 US Dept. of Commerce PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. 2206-006C	APPLICATION NO. 09/929,478
	APPLICANT Morton M. MOWER, M.D.	
	FILING DATE August 14, 2001	GROUP 3762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRI- ATE
		5,626,620	5/1997	Kieval <i>et al.</i>			Feb. 21, 1995
		5,649,966	7/1997	Noren <i>et al.</i>	607	4	Feb. 20, 1996
		5,662,698	7/1997	Altman <i>et al.</i>	607	123	Dec. 6, 1995
		5,713,929	2/1998	Hess <i>et al.</i>	607	14	May 3, 1996
		5,718,720	2/1998	Prutchi <i>et al.</i>			Dec. 13, 1996
		5,735,876	4/1998	Kroll <i>et al.</i>			Oct. 13, 1995
		5,741,303	4/1998	Kroll <i>et al.</i>	607	5	Sep. 13, 1993
		5,800,465	9/1998	Thompson <i>et al.</i>	607	9	June 18, 1996
		5,814,079	9/1998	Kieval	607	4	Oct. 4, 1996
		5,855,592	1/1999	McGee <i>et al.</i>			Apr. 24, 1997

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUM- BER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
		2763247	11/1998	FR				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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99-11-1449 US Dept. of Commerce (REV. 8-83)PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY DOCKET NO. 2206-006C	APPLICATION NO. 09/929,478
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRI- ATE
		5,855,594	1/1999	Olive <i>et al.</i>			Aug. 8, 1997
		5,871,506	2/1999	Mower	607	9	
		5,968,081	10/1999	Levine	607	9	May 15, 1996
		6,067,470	5/2000	Mower	607	5	
		6,136,019	10/2000	Mower	607	9	
		6,141,586	10/2000	Mower	607	9	
		6,141,587	10/2000	Mower	607	9	
		6,178,351	1/2001	Mower	607	5	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUM- BER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO

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